

Title (en)  
THERMAL DIFFUSION CHAMBER CONTROL DEVICE AND METHOD

Title (de)  
STEUERUNGSVORRICHTUNG UND -VERFAHREN FÜR EINE WÄRMEDIFFUSIONSKAMMER

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE COMMANDE DE CHAMBRE DE DIFFUSION THERMIQUE

Publication  
**EP 2659021 A1 20131106 (EN)**

Application  
**EP 11852375 A 20111222**

Priority  
• US 98237010 A 20101230  
• US 2011066886 W 20111222

Abstract (en)  
[origin: US2012168144A1] Preferably, obtaining internal and external thermal measurement values of a sealed process chamber allows a control system to generate a control signal based on a comparison of the internal and external thermal measurement values to the predetermined value. The control signal is provided to a fluid handling system, wherein the fluid handling system modulates flow of a first fluid around the exterior of the sealed process chamber. The control signal is further provided to a closed loop heat exchange system, wherein the closed loop heat exchange system modulates flow of a second fluid within an interior cavity of the sealed process chamber based on the control signal. The control signal is still further provided to an open loop heat exchange system, wherein the open loop heat exchange system modulates flow of a third fluid within the interior of cavity of the sealed process chamber.

IPC 8 full level  
**C23C 4/06** (2006.01)

CPC (source: EP KR US)  
**C23C 4/06** (2013.01 - KR); **C23C 16/4411** (2013.01 - US); **C23C 16/463** (2013.01 - US); **C23C 16/466** (2013.01 - US); **C23C 16/52** (2013.01 - US); **G05D 23/00** (2013.01 - KR); **G05D 23/1927** (2013.01 - EP US); **G05D 23/193** (2013.01 - EP US); **G05D 23/1932** (2013.01 - EP US); **G05D 23/1934** (2013.01 - EP US); **G05D 23/22** (2013.01 - EP US); **H01L 21/67109** (2013.01 - EP US); **C23C 16/45578** (2013.01 - US); **F28C 3/005** (2013.01 - EP US); **F28D 1/0477** (2013.01 - EP US); **F28D 2021/0077** (2013.01 - EP US); **F28F 1/32** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012092134A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 2012168144 A1 20120705**; **US 8950470 B2 20150210**; CN 103547698 A 20140129; CN 103547698 B 20160106; EP 2659021 A1 20131106; KR 20140006852 A 20140116; US 2015152548 A1 20150604; WO 2012092134 A1 20120705

DOCDB simple family (application)  
**US 98237010 A 20101230**; CN 201180068833 A 20111222; EP 11852375 A 20111222; KR 20137020106 A 20111222; US 2011066886 W 20111222; US 201514617517 A 20150209